

PUBLIC NOTICE

PERMIT APPLICATION: NRS # 06.150

APPLICANT: Worley Builders, Inc.
P.O. Box 71022
Knoxville, Tenn. 37938
865-922-2600

LOCATION: Unnamed tributary to Beaver Creek, proposed Village at Cates Bend, Cate Road,
Knoxville, Knox County 36.0161°N, -84.0822°W

WATERSHED DESCRIPTION: The unnamed tributary to Beaver Creek is located in the Lower Clinch watershed (HUC TN06010207) and is not currently assessed for its designated water quality uses (recreation, fish and aquatic life, livestock watering and wildlife, and irrigation). The receiving stream, Beaver Creek, is not supporting its fish and aquatic life designated use. The tributary channel is channelized and is connected to a stormwater basin from a neighboring subdivision. The stream has a clay/sediment substrate, a channel approximately 4' wide and 1.5' deep, and intermittent flow. Adjacent to the downstream end of the channel on the southeastern area of the property is a 0.28-acre scrub-shrub wetland.

(Representative photos of the stream is included on the Internet version of this notice at <http://www.state.tn.us/environment/wpc/wpcppo/arap>)

PROJECT DESCRIPTION: The applicant proposes to place 210.5 linear feet of the unnamed tributary in a culvert for two road crossings. The mitigation for the culvert will be the creation of approximately 323 linear feet of meandering channel on the downstream section. The existing channel will remain for flow and habitat, the existing canopy will remain to the fullest extent possible, and native trees will be planted on 15' centers along the new channel. The new stream channel will have river stones and cedar timbers for habitat and flow diversity. There are no alterations proposed for the existing wetland.

The applicant proposes to monitor the relocated stream channel for three years, with annual reports submitted to the division. The reports will address bank stability, in-stream habitat and buffer vegetation survival. The entire stream and wetland corridor will be placed into a type of conservation easement or restrictive covenant.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

PERMIT COORDINATOR: Juliana W. Kyzar

USGS TOPOGRAPHIC QUADRANGLE: Powell 137-SE

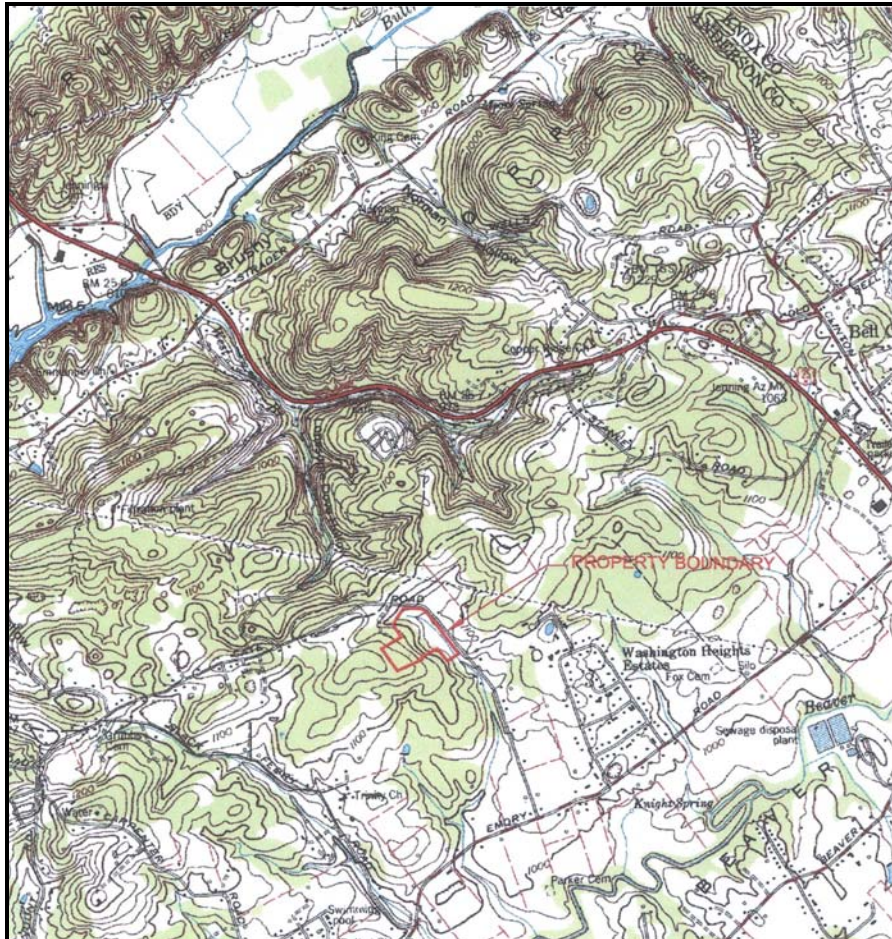


Figure 1: USGS 7.5-minute topographic map with project area indicated.

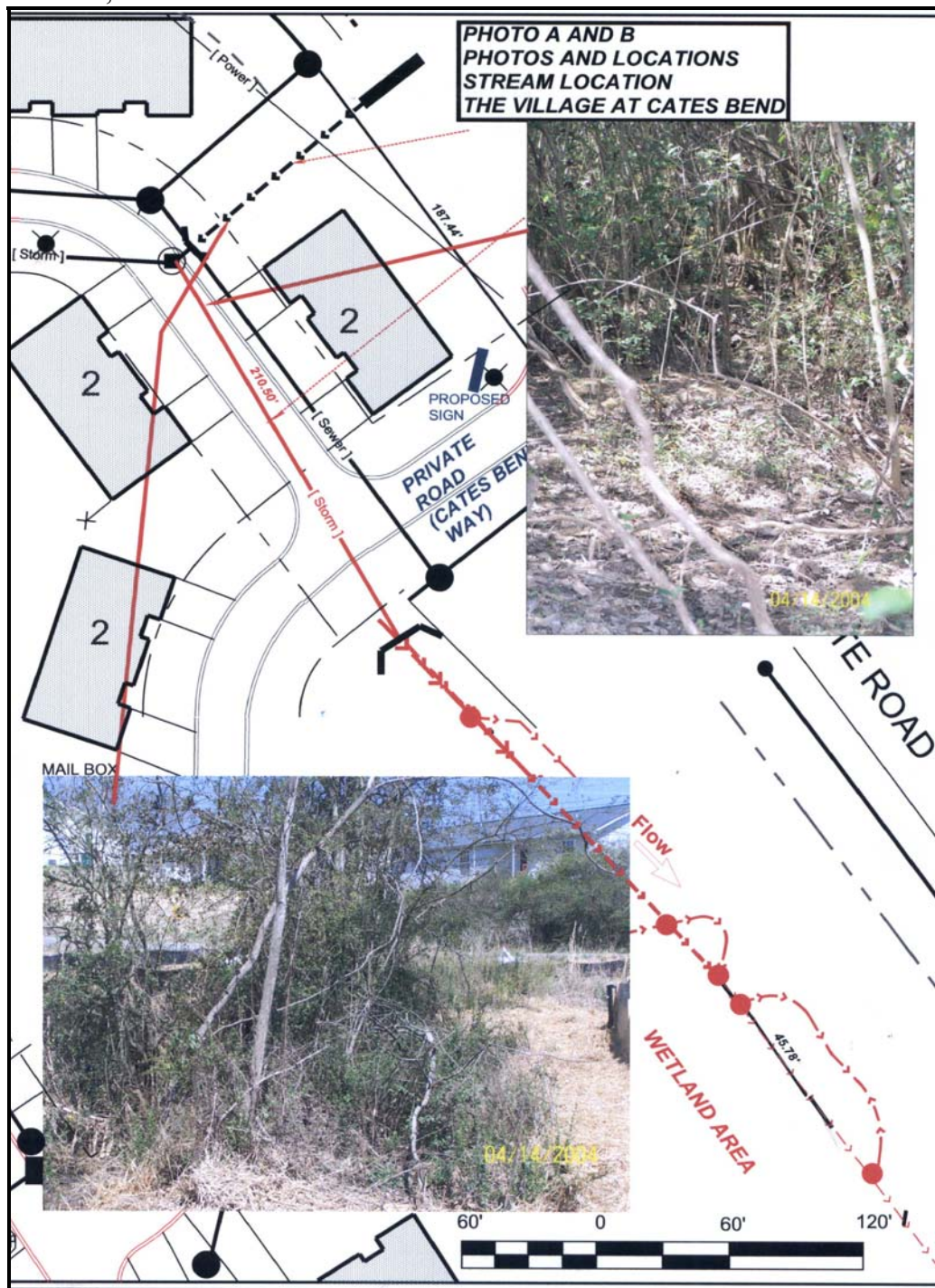


Figure 2: Side views of existing upstream section of channel

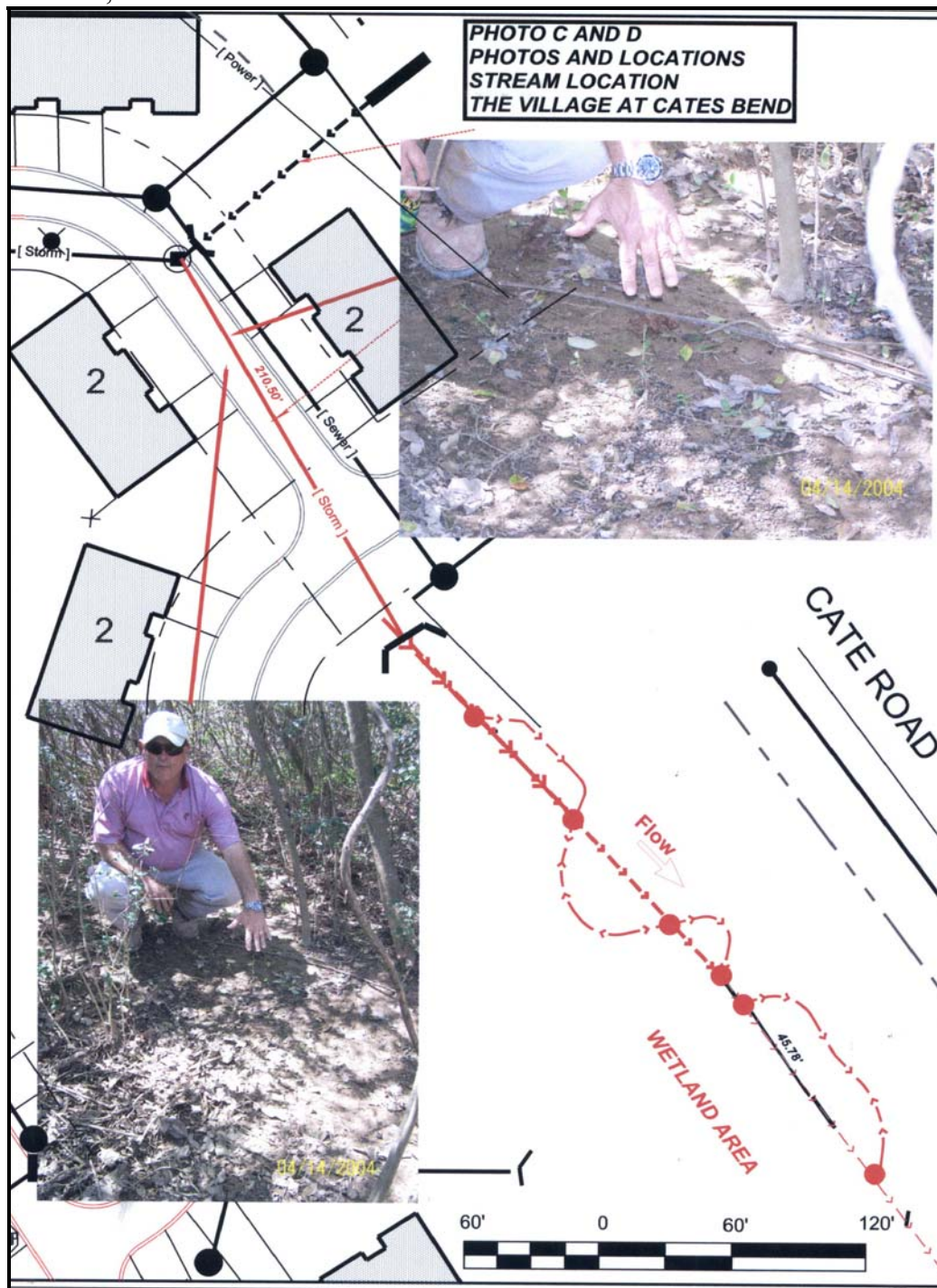


Figure 3: Channel in section proposed for culverting

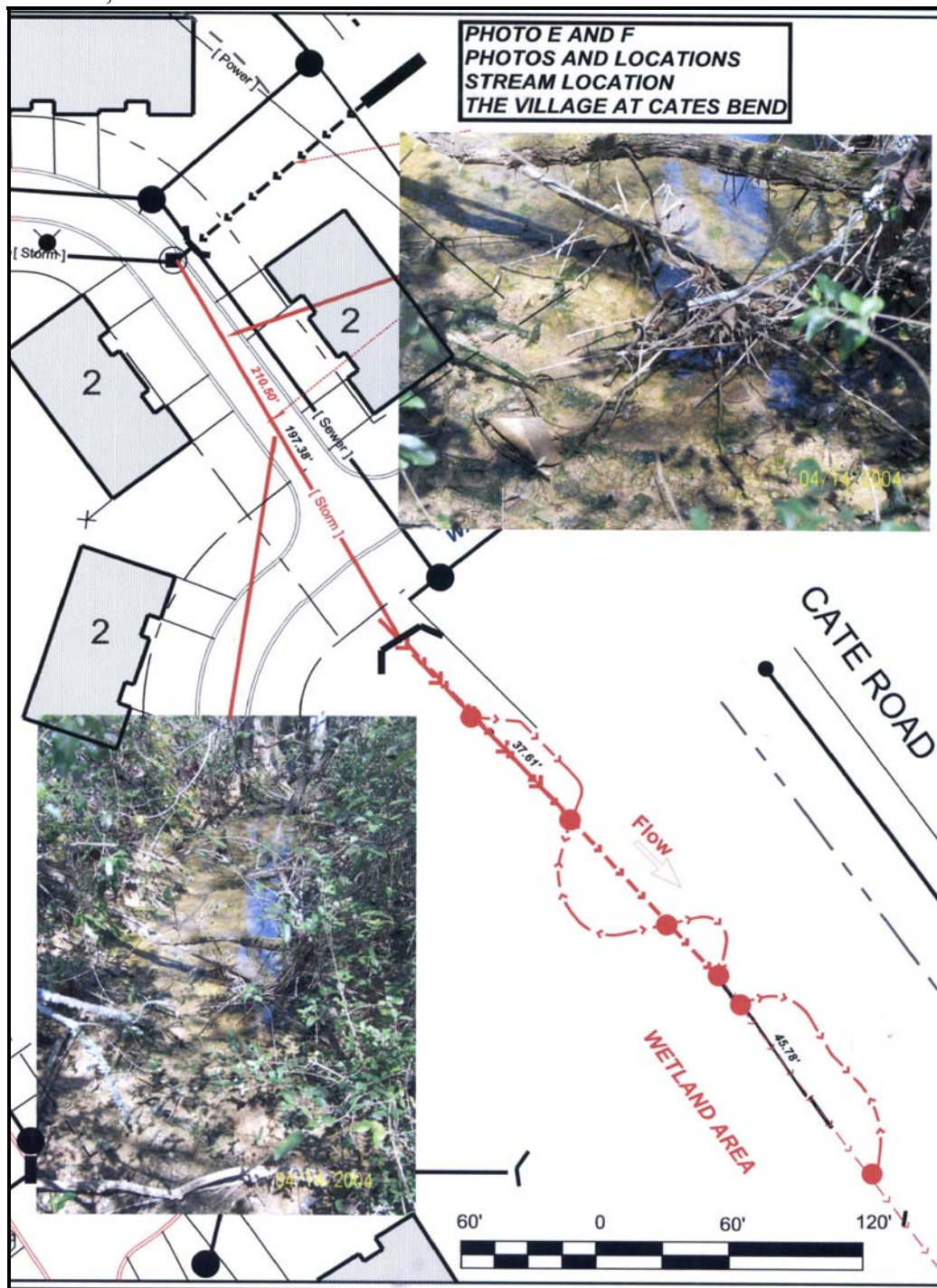


Figure 4: Channel in section proposed for culverting

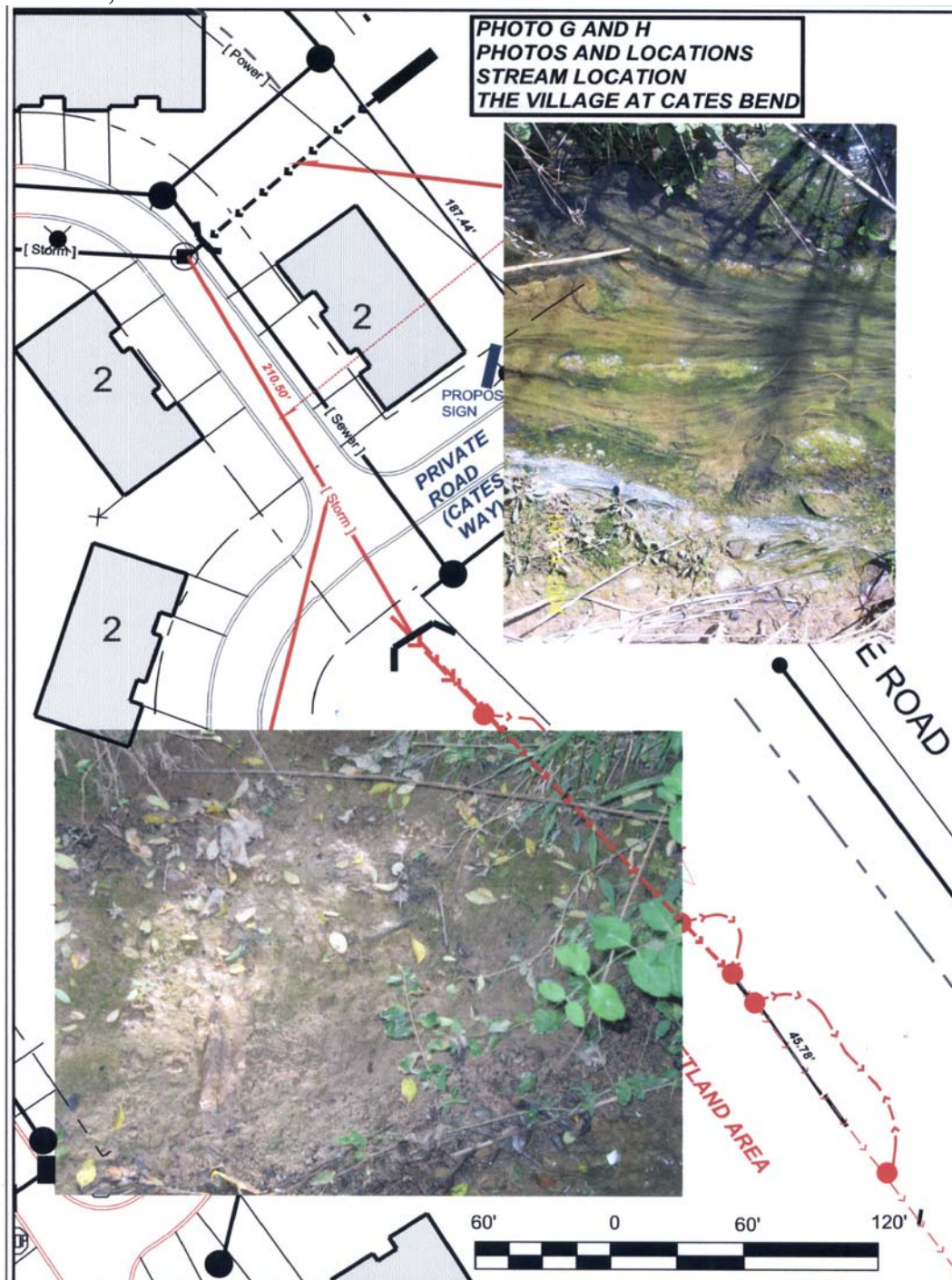


Figure 5: Photo of top channel to remain in place, and portion of channel to be culverted.

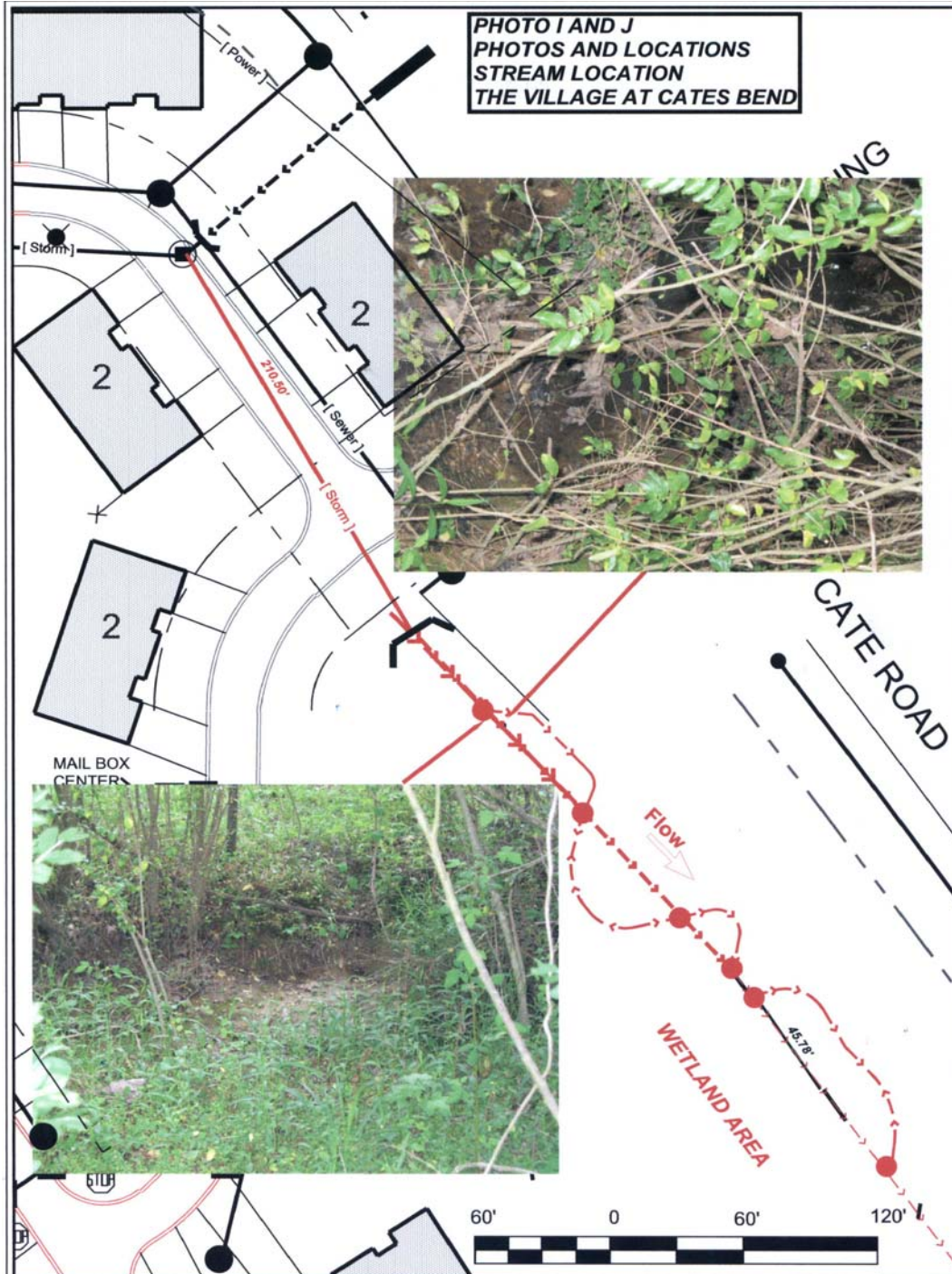


Figure 6: Point of beginning of proposed stream channel restoration

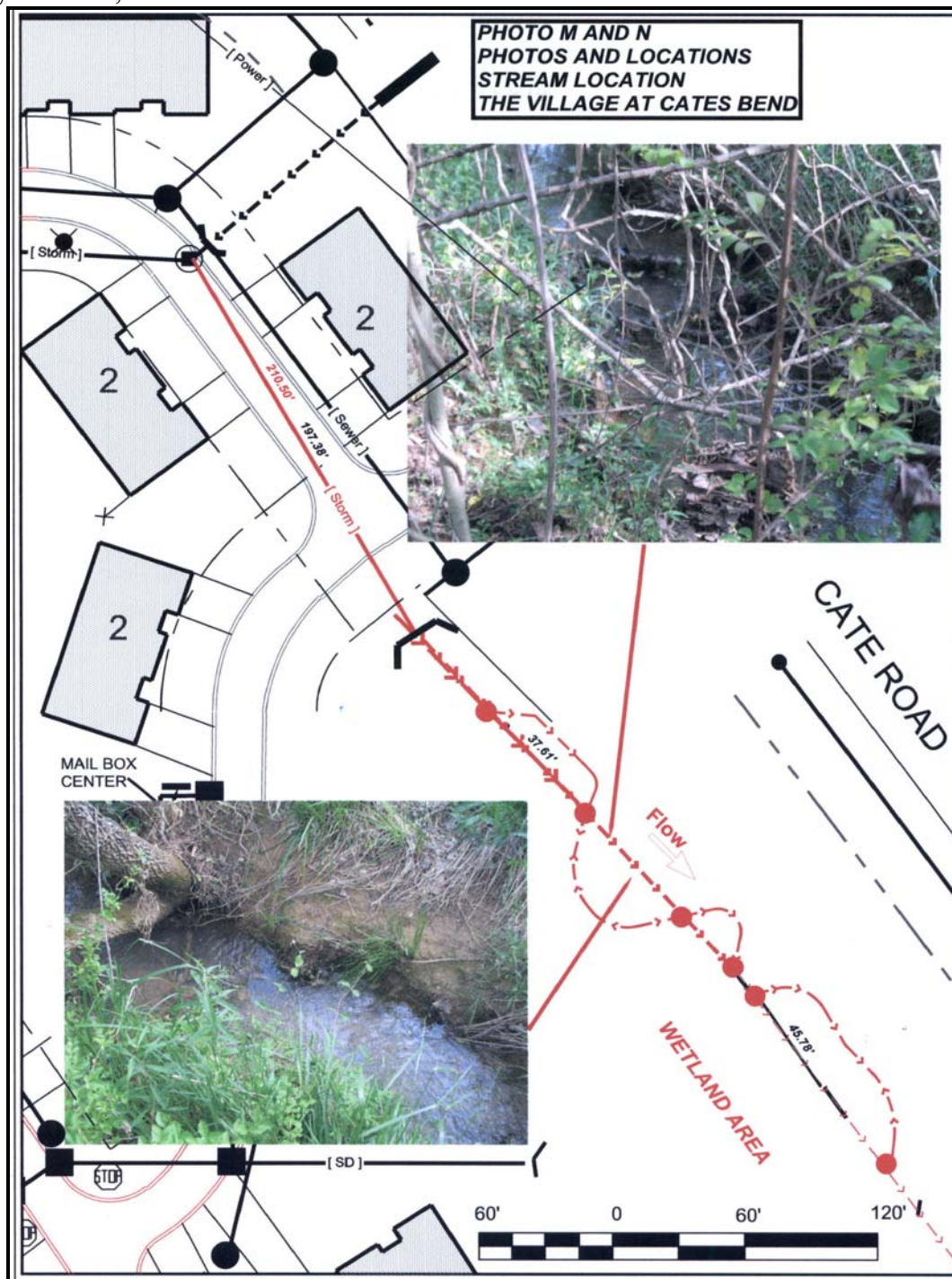


Figure 7: Existing channel, to remain with restored channel around it.

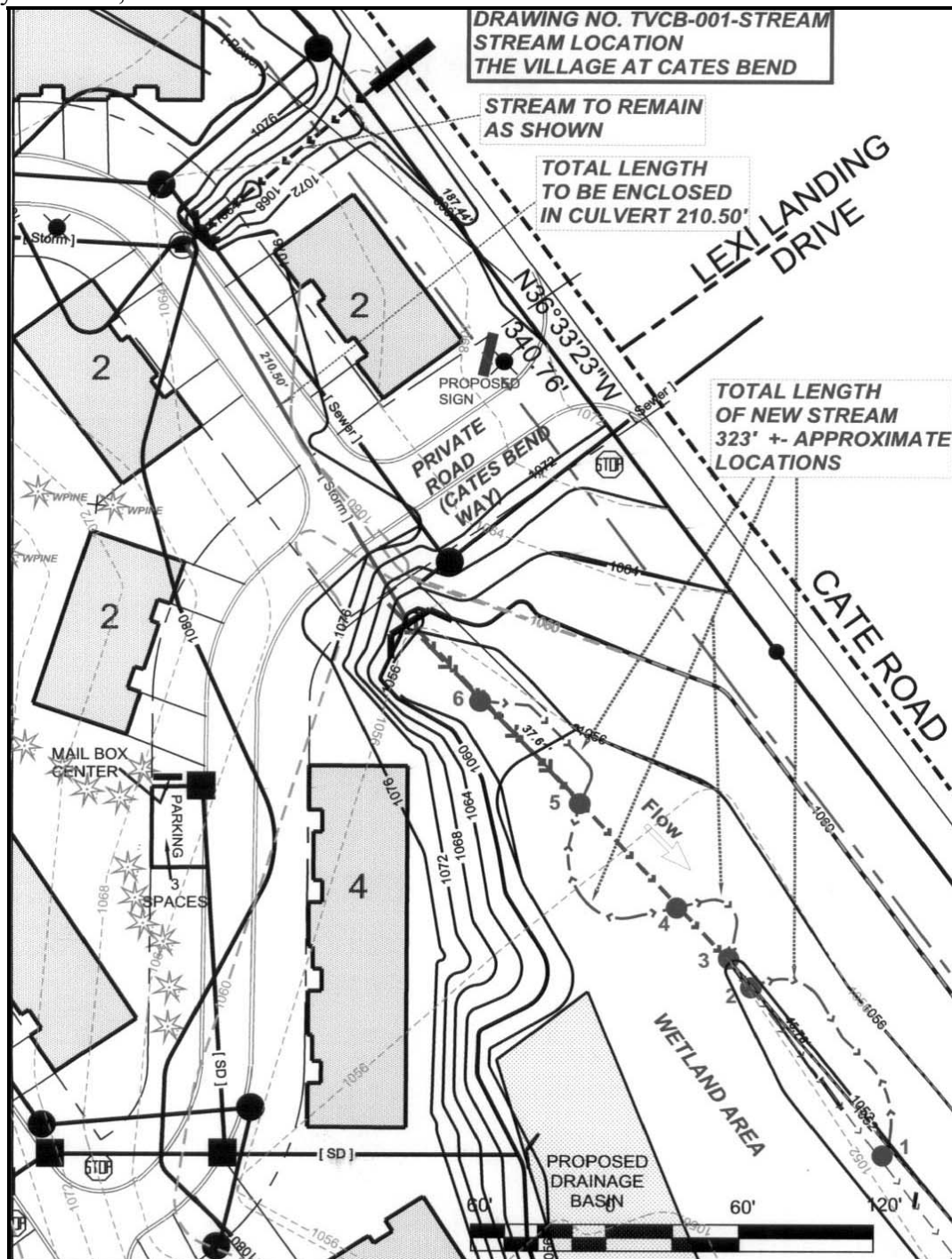


Figure 8: Basic site plan

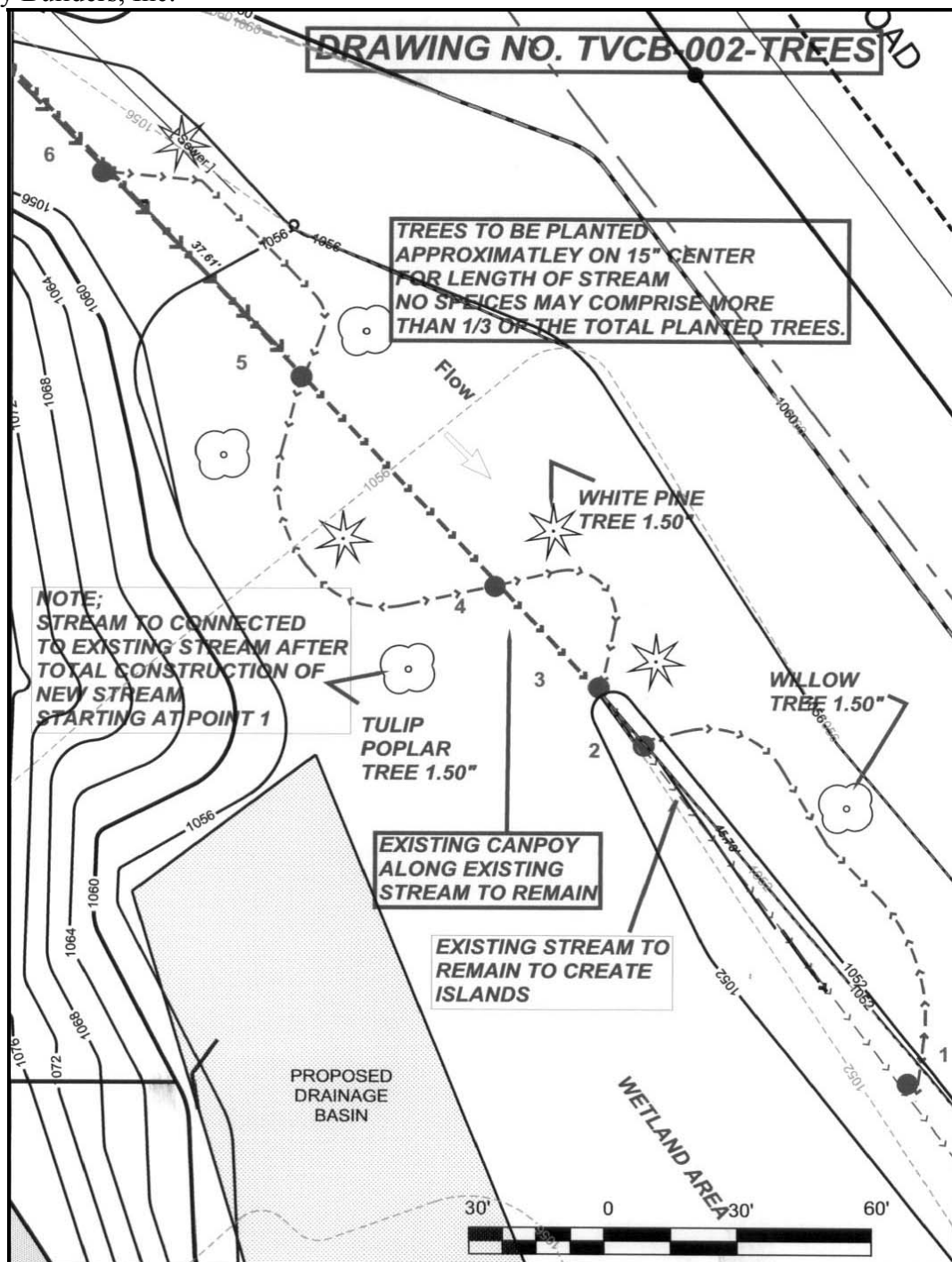


Figure 9: Basic planting scheme

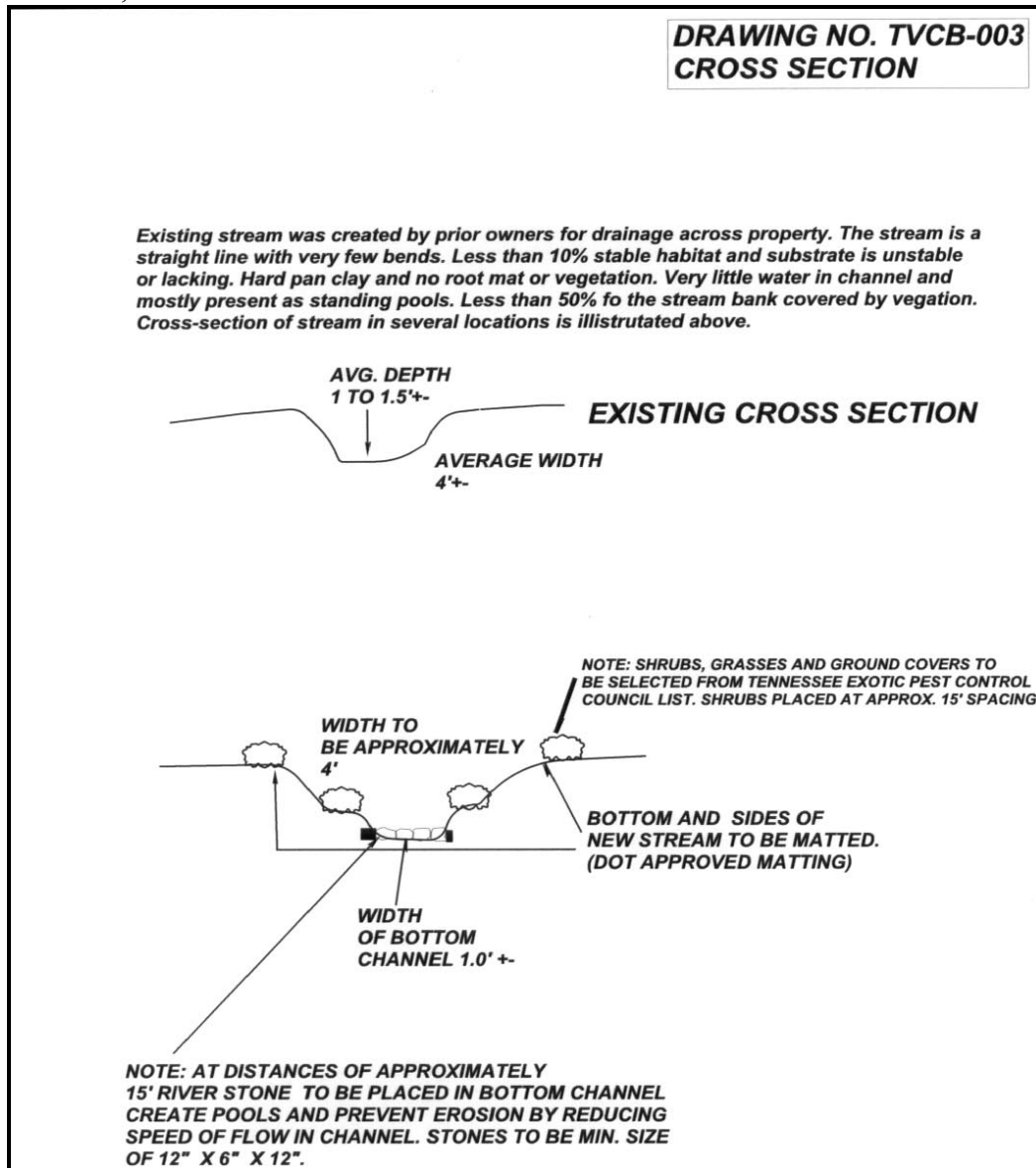


Figure 4:

Figure 5: